

CLAIMS

1. A vacuum system for a vehicle comprising:
a hose storage module adapted to house a retractable vacuum hose having a first end and a second end;
a vacuum console adapted to house a vacuum nozzle attached to the first end of the vacuum hose; and
a vacuum canister fluidly connected to the second end of the vacuum hose, the hose storage module being positioned within the vehicle and configured to allow the retractable hose to reach any portion of the interior space of the vehicle.
2. The vacuum system of claim 1, wherein the vacuum console comprises a pivotal and slideable cover in the shape of a vehicle seat.
3. The vacuum system of claim 1, wherein the vacuum console is part of the vehicle seat.
4. The vacuum system of claim 1, wherein the nozzle comprises a handle portion and a suction portion, the handle portion being configured with a first switch being electrically connected to a vacuum motor to operate the vacuum and a second switch being electrically connected to the hose storage module to operate a motorized extension and retraction of the hose.
5. The vacuum system of claim 1, wherein the vacuum canister is driven by a vacuum motor which is rechargeable by a deep draw battery.
6. The vacuum system of claim 1, wherein the hose storage module comprises a reel having a frame being formed from a plurality of cross members and spaced from each other by end brackets, one side of the frame being configured to be mounted to the back of a vehicle seat.

7. The vacuum system of claim 1, wherein the hose storage module comprises a hose retraction system having a roller with a concave surface, the concave surface having a radius roughly the same as that of the vacuum hose.
8. The vacuum system of claim 7, wherein the roller has a plurality of projections sized and spaced from each other to engage a corresponding plurality of adjacent valleys on at least one side of the vacuum hose.
9. The vacuum system of claim 4, wherein the electrical connections are made by electrical wiring that runs along the hose and is connected to a wiring module.
10. The vacuum system of claim 1, further comprising a cleaning solution tank and a conduit extending from the cleaning solution tank to a spray nozzle for dispensing cleaning solution.
11. The vacuum system of claim 10, wherein the nozzle further comprises a control electrically connected to the nozzle for controlling dispensing of the cleaning solution through the spray nozzle.
12. A vacuum system for a vehicle comprising:
 - a hose storage module having a storage space and adapted to house a retractable vacuum hose on a storage reel;
 - a vacuum canister fluidly connected to an end of the vacuum hose, and
 - one or more switches in electrical communication with the hose storage module and configured to extend and retract the hose into and out of the storage space.
13. The vacuum system of claim 12, further comprising a vacuum console adapted to house a vacuum nozzle attached the other end of the vacuum hose; the vacuum console comprising a pivotal and slideable cover in the shape of a vehicle seat.

14. The vacuum system of claim 13, wherein the nozzle comprises a handle portion and a suction portion, the handle portion being configured with a first switch being electrically connected to a vacuum motor to operate the vacuum and a second switch being electrically connected to the hose storage module to operate a motorized extension and retraction of the hose.
15. The vacuum system of claim 12, wherein the hose storage module comprises a hose retraction system having a roller with a concave surface, the concave surface having a radius roughly the same as that of the vacuum hose.
16. The vacuum system of claim 15, wherein the roller has a plurality of projections sized and spaced from each other to engage a corresponding plurality of adjacent valleys on at least one side of the vacuum hose.
17. The vacuum system of claim 12, wherein the storage module further comprises:
a frame;
a hub on the reel and mounted to the frame for rotation about an axis;
a vacuum hose having one end mounted to the hub; and
a roller fixedly mounted relative to the frame adjacent to the reel in a position to engage the vacuum hose in order to urge the vacuum hose onto and off of the reel when the roller rotates;
wherein the frame has a slot extending from the axis toward the roller and the hub moves within the slot, the hub being biased toward the roller to keep the vacuum hose engaged with the roller.
18. The vacuum system of claim 12, further comprising a cleaning solution tank and a conduit extending from the cleaning solution tank to a spray nozzle for dispensing cleaning solution.
19. A cleaning system for a vehicle comprising:

a vacuum canister fixedly mounted to the vehicle and configured to draw a vacuum in the canister;
a hose fluidly connected to the vacuum canister;
a suction nozzle on the hose;
a cleaning solution tank for holding carpet and upholstery cleaning solution;
a conduit extending from the cleaning solution tank to a spray nozzle for dispensing cleaning solution from the cleaning solution tank; and
a control on the suction nozzle to control operation of the vacuum and the spray nozzle.

20. The cleaning system of claim 19, further comprising a storage module having a frame;
a hub on the reel and mounted to the frame for rotation about an axis;
one end of the vacuum hose being mounted to the hub; and
a roller fixedly mounted relative to the frame adjacent to the reel in a position to engage the vacuum hose in order to urge the vacuum hose onto and off of the reel when the roller rotates.